

WHAT IS CLAIMED IS:

1. A method for judgment of physical constitution and physical strength for a person under test, comprising the step of:

calculating Proportion Age based on fat mass in a trunk and fat mass
5 in lower limbs of the person under test.

2. A method for judgment of physical constitution and physical strength for a person under test, comprising the step of:

calculating Physical Strength Age based on weight of an upper-half body and volume of muscle in lower limbs of the person under test.

10 3. A method for judgment of physical constitution and physical strength for a person under test, comprising the step of:

judging the physical constitution and physical strength based on at least one of body fat rate, BMI (Body Mass Index), Proportion Age and Physical Strength Age of the person under test.

15 4. A method for judgment of physical constitution and physical strength for a person under test according to claim 3 in which said Proportion Age is calculated based on fat mass in a trunk and fat mass in lower limbs of the person under test.

20 5. A method for judgment of physical constitution and physical strength for a person under test according to claim 3 in which said Physical Strength Age is calculated based on weight of an upper-half body and volume of muscle in lower limbs of the person under test.

6. A method for judgment of physical constitution and physical strength for a person under test, comprising the step of:

calculating KOI (Knee Osteoarthritis Index) for osteoarthritis based on body weight and volume of muscle in lower limbs of the person under test.

5 7. A method for judgment of physical constitution and physical strength for a person under test according to claim 6 in which said KOI is corrected according to at least one of shape parameters for a knee of the person under test.

8. A method for judgment of physical constitution and physical strength for a person under test according to claim 7 in which said shape parameter for a
10 knee includes girth of a knee and degree of bow-legs of the person under test.

9. A method for judgment of physical constitution and physical strength for a person under test, comprising the step of:
judging the possibility of occurrence of osteoarthritis and at least one of its causes, based on at least one of BMI and body fat rate as well as KOI for
15 osteoarthritis.

10. A method for judgment of physical constitution and physical strength for a person under test according to claim 9 in which said KOI is calculated based on body weight and volume of muscle in lower limbs of the person under test.

11. A method for judgment of physical constitution and physical strength
20 for a person under test according to claim 9 or 10 in which said cause for osteoarthritis includes excessive body weight, less volume of muscle in lower limbs, small girth of a knee, and greater degree of bow-legs of the person under test.

12. An apparatus for judgment of physical constitution and physical strength for a person under test, comprising:
a first input unit;
a second input unit; and
5 an arithmetic unit;
wherein said first input unit enters fat mass in a trunk of the person under test;
said second input unit enters fat mass in lower limbs of the person under test; and
10 said arithmetic unit calculates Proportion Age based on the data entered from said first and second input units.

13. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 12 in which said first input unit is a body fat meter.

15 14. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 12 in which said first input unit is a key unit by which said fat mass in the trunk can manually be entered.

15 15. An apparatus for judgment of physical constitution and physical strength for a person under test according to any one of claims 12 to 14 in which
20 said second input unit is a body fat meter.

16. An apparatus for judgment of physical constitution and physical strength for a person under test according to any one of claims 12 to 14 in which said second input unit is a key unit by which said fat mass in the lower limbs can manually be entered.

5 17. An apparatus for judgment of physical constitution and physical strength for a person under test, comprising:
 a first input unit;
 a second input unit; and
 an arithmetic unit;
10 wherein said first input unit enters weight of an upper-half body of the person under test;
 said second input unit enters volume of muscle in lower limbs of the person under test; and
 said arithmetic unit calculates Physical Strength Age based on the
15 data entered from said first and second input units.

18. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 17 in which said first input unit is a weight meter.

20 19. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 17 in which said first input unit is a key unit by which said weight of the upper-half body can manually be entered.

20. An apparatus for judgment of physical constitution and physical strength for a person under test according to any one of claims 17 to 19 in which said second input unit is a body fat meter.

21. An apparatus for judgment of physical constitution and physical strength for a person under test according to any one of claims 17 to 19 in which said second input unit is a key unit by which said volume of muscle in lower limbs can manually be entered.

22. An apparatus for judgment of physical constitution and physical strength for a person under test, comprising:

10 a first input unit;
a second input unit;
a third input unit;
a fourth input unit;
a judgment unit; and
15 a display unit,
wherein said first input unit enters body fat rate of the person under test;
said second input unit enters BMI (Body Mass Index) of the person under test;
20 said third input unit enters Proportion Age of the person under test;
said fourth input unit enters Physical Strength Age of the person under test;
said judgment unit judges the physical constitution and physical strength based on the data from at least one of the first, second, third and fourth
25 input units; and
said display unit displays the result of judgment performed by the judgment unit.

23. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 22 in which said display unit graphically displays the result of judgment.

24. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 21 or 23 in which said first input unit is a body fat meter.

25. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 21 or 23 in which said first input unit is a key unit by which said body fat rate can manually be entered.

26. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 22 or 23 in which said second input unit is a key unit by which said BMI can manually be entered.

27. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 22 or 23 in which said third input unit calculates said Proportion Age based on fat mass in the trunk and fat mass in the lower limbs of the person under test.

28. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 22 or 23 in which said third input unit is a key unit by which said Proportion Age can manually be entered.

29. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 22 or 23 in which said fourth input unit calculates said Physical Strength Age based on weight of the upper-half body and volume of muscle in the lower limbs of the person under test.

5 30. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 22 or 23 in which said fourth input unit is a key unit by which said Physical Strength Age can manually be entered.

10 31. An apparatus for judgment of physical constitution and physical strength for a person under test, comprising:
 a first input unit;
 a second input unit; and
 an arithmetic unit,
 wherein said first input unit enters body weight of the person under
15 test;
 said second input unit enters volume of muscle in lower limbs of the person under test; and
 said arithmetic unit calculates KOI (Knee Osteoarthritis Index) for osteoarthritis based on the data from the first and second input units.

20 32. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 31 in which said first input unit is a weight meter.

33. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 31 in which said first input unit is a key unit by which said body weight can manually be entered.

34. An apparatus for judgment of physical constitution and physical strength for a person under test according to any one of claims 31 to 33 in which said second input unit is a body fat meter.

35. An apparatus for judgment of physical constitution and physical strength for a person under test according to any one of claims 31 to 33 in which said second input unit is a key unit by which said volume of muscle in the lower limbs can manually be entered.

36. An apparatus for judgment of physical constitution and physical strength for a person under test according to any one of claims 31 to 33 in which said KOI is corrected according to at least one of shape parameters for a knee of the person under test.

37. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 36 in which said shape parameter for a knee includes girth of a knee and degree of bow-legs of the person under test.

38. An apparatus for judgment of physical constitution and physical strength for a person under test, comprising:

- a first input unit;
- a second input unit;
- a third input unit;

a judgment unit; and
a display unit,
wherein said first input unit enters BMI (Body Mass Index) of the person under test;
5 said second input unit enters body fat rate of the person under test;
 said third input unit enters KOI (Knee Osteoarthritis Index) for osteoarthritis of the person under test;
 said judgment unit judges the possibility of occurrence of osteoarthritis and at least one of its causes, based on the data from at least one of
10 said first and second input units as well as the data from said third input unit; and
 said display unit displays the result of judgment performed by said judgment unit.

39. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 38 in which said first input unit
15 is a key unit by which said BMI can manually be entered.

40. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 38 or 39 in which said second input unit is a body fat meter.

41. An apparatus for judgment of physical constitution and physical
20 strength for a person under test according to claim 38 or 39 in which said second input unit is a key unit by which said body fat rate can manually be entered.

42. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 38 or 39 in which said third input unit calculates said KOI based on body weight and volume of muscle in lower limbs of the person under test.

5 43. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 38 or 39 in which said third input unit is a key unit by which said KOI can manually be entered.

10 44. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 38 or 39 in which said KOI is corrected according to at least one of shape parameters for a knee of the person under test.

45. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 44 in which said shape parameter for a knee includes girth of a knee and degree of bow-legs of the person under test.

15 46. An apparatus for judgment of physical constitution and physical strength for a person under test according to claim 38 or 39 in which said cause for osteoarthritis includes excessive body weight, less volume of muscle in lower limbs, small girth of a knee, and greater degree of bow-legs of the person under test.